

**ABSTRACT**

A method for inspection of a sample that includes a first layer having a known reflectance property and a second layer formed over the first layer. The method includes directing radiation toward a surface of the sample and sensing the radiation reflected from the surface so as to generate a reflectance signal as a function of elevation angle relative to the surface. A feature due to reflection of the radiation from the first layer is identified in the reflectance signal. The reflectance signal is calibrated responsively to the identified feature and to the known reflectance property of the first layer. The calibrated reflectance signal is analyzed to determine a characteristic of the second layer. Other enhanced inspection methods are disclosed, as well.